= AUTO NEG × AUTO CROSS

Industrial

industrial switch

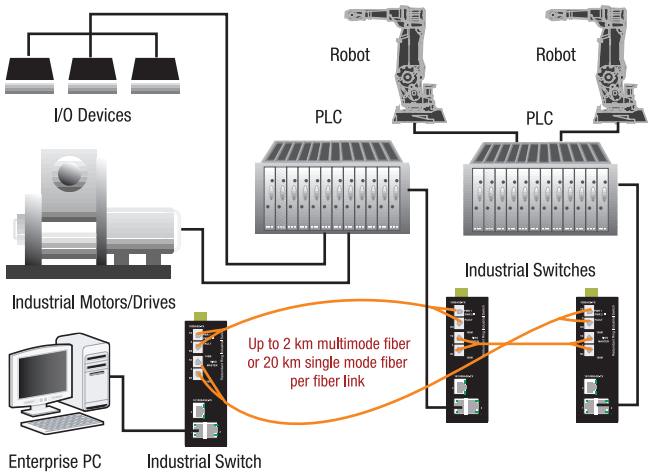
SISTM101x-1xx-LRT

Managed Redundant Industrial Switch

Features

- AutoCross™ [
- IEEE 802.1P, 4-level priority queuing
- IGMP Snooping V1 with Query mode
- Auto-Negotiation
- IEEE 802.1Q VLAN capability
- Redundant Ring Switching Technology (recovery time < 300ms)
- SNMP trap and SMTP email trap support
- SNTP Clock Synchronization
- Bandwidth Allocation
- Ingress Packet Filtering
- DHCP Client Support
- Spanning Tree/Rapid Spanning Tree
- TFTP Firmware Update
- Dual Homing Application Support
- Auto-Sensing Redundant DC Power Inputs
- Dry Contact Relays
- System Configuration Restore/Backup
- Extended (-40°C to 75°C) operating temperature
- Barrel connector interface cable included for connecting external AC/DC power supply

Industrial Redundant Ring Topologies



Specifications

Standards	IEEE Std. 802.3, 802.1p, 802.1Q, 802.3u, 802.1d, 802.1w, 802.3x
Status LEDs	**PWR (Power)**: ON = power connected **R.M.**: ON = Device is the Master in the redundant ring network **PWR 1 (Power)**: ON = primary power connected **PWR 2 (Power)**: ON = backup power connected **Fault**: ON = Fault on port link or loss of PWR 1 or PWR 2 **LNK/ACT (Fiber)**: ON = Link on fiber 100 Mbps; Flashing = data transmitting **FDX/COL (Fiber)**: ON = Full duplex link on fiber; Flashing = collisions occurring
Data Transfer Rate	10BASE-T: 14,880 pps; 100BASE-TX: 148,800 pps
MAC Addresses	2K
Max Packet Size	1536 bytes
Data Memory Buffer	1 Mb
Backplane	2.0 Gbps
SNMP MIB	RFC 1213 MIBII, RFC 1493 Bridge MIB, RMON RFC 1757, RFC 2674 VLAN MIB, RFC 1643 Ethernet like MIB, RFC 1215 Trap MIB
Dimensions	**Width**: 2.1" [54 mm] **Depth**: 4.1" [105 mm] **Height**: 5.3" [135 mm]
Ingress Protection	IP 31
Input Power	12 to 48 VDC, 0.2A, redundant inputs with reverse polarity protection; Additional barrel connector cable
Power Consumption	**-180 models:** 4.6 Watts **-162 models:** 6.0 Watts
Environment	-40 to +75°C Ext. operating temp. -40 to +85°C storage temp. 5 – 95% humidity non-condensing 0 – 10,000 ft. altitude
Shipping Weight	2 lbs. [0.90 kg]
Safety Compliance	UL 60950; cUL60950
EMI Compliance	CISPR22/EN55022; EN60950 Class A; FCC Class A; CE Mark; EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5; EN61000-4-6
Warranty	Lifetime

Ordering Information

Extended Operating Temperature
-40°C to +75°C

SISTM1010-180-LRT
(8) 10/100BASE-TX (RJ-45)
[100 m/328 ft.]

SISTM1011-162-LRT
(6) 10/100BASE-TX (RJ-45)
[100 m/328 ft.]
to (2) 100BASE-FX 1300nm MM (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB

SISTM1013-162-LRT
(6) 10/100BASE-TX (RJ-45)
[100 m/328 ft.]
to (2) 100BASE-FX 1300nm MM (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB

SISTM1014-162-LRT
(6) 10/100BASE-TX (RJ-45)
[100 m/328 ft.]
to (2) 100BASE-FX 1310nm SM (SC)
[20 km/12.4 mi.] Link Budget: 17.0 dB

Optional Accessories ***(sold separately)***

External AC/DC Power Supply

SPS-UA12DHT
(100-240 VAC input
0°C to +70°C operating temperature)

25083
Universal AC/DC Input DIN Rail Mountable
+12 VDC Power Supply

Incorporate Redundant Ring technology into your industrial automation network to increase reliability and system uptime. Critical communication needs can now be protected using redundant copper or fiber links with switching recovery times of less than 300ms. These 8-port switches can be SNMP managed via web browser to configure all of the latest advanced industrial networking capability including IGMP snooping, VLANs, QoS, port mirroring and trunking.

Transition Networks' Industrial Switches are hardened devices designed to reliably operate in harsh environments such as those found on factory floors, outdoor enclosures or other hazardous environments.

TRANSITION NETWORKS®

Industrial Switch 10/100BASE-TX to 100BASE-FX